

hr1Z	60	QNTTEVA	ATETLAEVPE	HVLRCLPEEV	RLFPSAVDKT	RIGVWATKPI	LKGGKFGPFV
rr1Z	59	QNTTEVA	ATETLAEVPE	HVLRCLPEEV	RLFPSAVDKT	RIGVWATKPI	LKGGKFGPFV
Consensus	60	QNTTEVA	ATETLAEVPE	HVLRCLPEEV	RLFPSAVDKT	RIGVWATKPI	LKGGKFGPFV
hr1Z	120	GDKKKRSQVK	NNVYMWEVYY	PNLCWMCIDA	TDPEKGNWLR	YNNWACSGEE	QNLFPLEINR
rr1Z	119	GDKKKRSQVR	NNVYMWEVYY	PNLCWMCIDA	TDPEKGNWLR	YNNWACSGEE	QNLFPLEINR
Consensus	120	GDKKKRSQV	NNVYMWEVYY	PNLCWMCIDA	TDPEKGNWLR	YNNWACSGEE	QNLFPLEINR
hr1Z	180	AIIYKTLKPI	APGEELLVWY	NCEDNPEIAA	AIEEERASAR	SKRSSPKSRK	GKKKSLENKN
rr1Z	179	AIIYKTLKPI	APGEELLVWY	NCEDNPEIAA	AIEEERASAR	SKRSSPKSRR	GKKKSLENKN
Consensus	180	AIIYKTLKPI	APGEELLVWY	NCEDNPEIAA	AIEEERASAR	SKRSSPKSR	GKKKSLENKN
hr1Z	240	KQNKIQDIQL	KISEDITSA	NMRISAEGPK	EDENPASA	EQPAIDLEV	ASOEVIPELA
rr1Z	239	KGIRTHPTQL	KISEDITSA	NMRISAEGPK	EEDENPASA	EQPAIDLEV	ASOEVIPELA
Consensus	240	KG.....QLKISEDITSA	NMRISAEGPK	EEDENPASA	EQPAIDLEV	ASOEVIPELA	ASOEVIPELA
hr1Z	300	TPPAEPQP	EPDERLEMAA	CEVNDLCEEE	EEEEEEEEE	EEEDDDDDDE	DECEEAEMP
rr1Z	295	TPPAEPQP	EPDERLEMAA	CEVNDLCEEE	EEEEEEEEE	EEEDDDDDDE	DECEEAEMP
Consensus	300	TPPAEPQP	EPDERLEMAA	CEVNDLCEEE	EEEEEEEEE	EEEDDDDDDE	DECEEAEMP
hr1Z	360	NBSKEPEI	RCCEKPEDLL	EEPKTTSER	LEDCEVTPA	MOIPRTKEEA	NGDVLETFMF
rr1Z	355	NBSKEPEI	RCCEKPEDLL	EEPQSMSEA	REDSPQVTPP	PHTPRAREEA	NGDVLETFMF
Consensus	360	NBSKEPEI	RCCEKPEDLL	EEPQSMSEA	REDSPQVTPP	PHTPRAREEA	NGDVLETFMF

FIGURE 1A



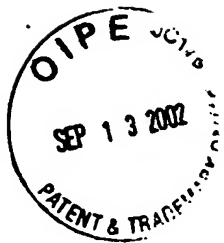
hrIZ	PCQHCKRFF	TKQCLERHMI	IHIIST	NIUAF	KCKYCCK	FC	TOINRRRRHER	RHE	CLKR	420
rRIZ	PCQHCKRFF	TKQCLERHMI	IHIIST	NIUAF	KCKYCCK	FC	TOINRRRRHER	RHE	CLKR	415
Consensus	PCQHCKRFF	TKQCLERHMI	IHIIST	NIUAF	KCKYCCK	FC	TOINRRRRHER	RHE	CLKR	420
hrIZ	SLFLQ SEDL	ADGKAS	GENV	SKD	SSPPS	LC	DCLI	NS	EX	480
rRIZ	SLFLQ SEDP	ADGKAS	GENV	SKD	SSPPQ	LC	DCLI	NS	EX	473
Consensus	SLFLQ SED	ADGKAS	GENV	SKD	SSPP	LC	DCLI	NS	EX	480
hrIZ	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LIB	POPPAE	QAQAT	QNVYV		539
rRIZ	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LIB	POPPAE	QAQAT	QNVYV		533
Consensus	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LIB	POPPAE	QAQAT	QNVYV		540
hrIZ	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN		TSNCDVIEME	S	SA	LYGI	599
rRIZ	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN		TSNCDVIEME	S	SA	LYGI	593
Consensus	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN		TSNCDVIEME	S	SA	LYGI	600
hrIZ	CLLTPVTVEI	TONIK	TQV	VT	DL	K	RTASPP	LPK	IK	659
rRIZ	CLLTPVTVEI	TONIK	TQV	VT	DL	K	RTASPP	LPK	IK	653
Consensus	CLLTPVTVEI	TONIK	TQV	VT	DL	K	RTASPP	LPK	IK	660
hrIZ	VPSCSLSLPL	SIST	VSF	HKEK	VYLSS	KLKOLLQTD	KLIT	PAC	SA	719
rRIZ	VPSCSLSLPL	SIST	VSF	HKEK	VYLSS	KLKOLLQTD	KLIT	PAC	SA	713
Consensus	VPSCSLSLPL	SIST	VSF	HKEK	VYLSS	KLKOLLQTD	KLIT	PAC	SA	720

FIGURE 1B



hRIZ	VSAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGKR	D	GKAAWTDACL	L	TSKK	KLESH	779									
rRIZ	ASAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGKP	D	GKAAWTDACL	L	TSKK	KLESR	773									
Consensus	SAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGKR	D	GKAAWTD	L	TSKK	KLES	780									
hRIZ	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQOPLDLSS	GVKQKECTC	839								
rRIZ	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQOPLDLSS	GVKQKECTC	833								
Consensus	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQOPLDLSS	GVKQKECTC	840								
hRIZ	KTPVWESVL	DLSVHKK	CS	DSECKEFKES	PS	QPTC	SAV	KK	KPTTCML	QKVLLNEYNC	899								
rRIZ	KTPVWESVL	DLSVHKK	CS	DSECKEFKEN	PL	QPTC	AA	KK	KPTTCML	QKVLLNEYNC	889								
Consensus	KTPVWESVL	DLSVHKK	CS	DSECKEFKE	PL	QPTC	AA	KK	KPTTCML	QKVLLNEYNC	900								
hRIZ	ILP	ENPAD	TRSPSPCKS	LEA	QPDF	LG	P	SGFP	PTV	ES	IPV	PS	SP	LQT	SLS	958			
rRIZ	VLPL	BTPE	TRSPSPCKS	PD	QPDF	LG	P	SSCS	PTA	ES	IPV	PS	SP	LQT	SLS	949			
Consensus	LP	E	TRSPSPCKS	...	QPDF	LG	P	S	...	PT	ES	IP	PS	SP	LQT	SLS	960	
hRIZ	SCQLPPLLP	P	T	PSSPPPCP	PULTVATPPP	PLLPTVPLPA	PSS	ASPHRC	PSP	SN	TAQ	1018							
rRIZ	SCQLPPLLP	P	T	PSSPPPCP	PULTVATPPP	PLLPTVPLSH	PSS	ASPPQC	PSP	SN	TAQ	1009							
Consensus	SCQLPPLLP	P	T	PSSPPPCP	PULTVATPPP	PLLPTVPL	PSS	ASR	C	PSP	SN	TAQ	1020						
hRIZ	SPLPILSPTV	SPSPPIPPV	EPLMSAASPC	PPTLSSSSSS	SSSS	SSSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	1078
rRIZ	SPLPILSPTV	SPSPPIPPV	EPLMSAASPC	PPTLSSSSSS	SSSS	SSSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	1067
Consensus	SPLPILSPTV	SPSPPIPPV	EPLMSAASPC	PPTLSSSSSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	1080

FIGURE 1C



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hRIZ	LSA	SSSVSS	GNLEASLP	ISFKQEE	EN	EGLKP	EEEPQ	SAABQ	VWVQ	ETFN	KNF	CN	1138
rRIZ	LSA	SSSVSS	GNLEASLP	VTIFKQEE	ES	EGLKP	EEEP	PACQCS	VWVQ	ETFEK	KNF	CN	1126
Consensus	LSA	SSSVSS	GNLEASLP	IFKQEE	E	EGLKP	EE	A	Q	VWQ	ETF	KNF	1140
hRIZ	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFLLHGV	GNIFVCSVCK				1198
rRIZ	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFLLHGV	GNIFVCSVCK				1186
Consensus	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFLLHGV	GNIFVCSVCK				1200
hRIZ	KEFA	FLCNLQ	QHQRDLHPDK		VCTHIEFESG	TLRPQNFTDP	SKA	VEHMS	S	LPE	PLETSK		1258
rRIZ	KEFA	FLCNLQ	QHQRDLHPDE		VCTHIEFESG	TLRPQNFTDP	SKA	VEHMS	S	LPE	PLETSR		1246
Consensus	KEFA	FLCNLQ	QHQRDLHPD		VCTHIEFESG	TLRPQNFTDP	SKA	VEHMS	S	LPE	PLETS		1260
hRIZ	EEB	LNDSSSE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYP	FKPPPFQYHH	RNPMGICVTA						1318
rRIZ	EEB	LNDSSSE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYP	FKPPPFQYHH	RNPMGICVTA						1305
Consensus	EEB	LNDSSSE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYP	FKPPPFQYHH	RNPMGICVTA						1320
hRIZ	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1378
rRIZ	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1365
Consensus	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1380
hRIZ	QPKNG	VVWLD	NSGKNAFRRM	COPKRL	FF	EL	KMS	ENKL	KL	AL	KKKNQ	LVOKAILQKN	1438
rRIZ	QPKNG	VVWLD	NSGKNAFRRM	COPKRL	FF	EL	KMS	ENKL	KL	AL	KKKNQ	LVOKAILQKN	1425
Consensus	QPKNG	VVWLD	NSGKNAFRRM	COPKRL	FF	EL	KMS	ENKL	KL	AL	KKKNQ	LVOKAILQKN	1440

FIGURE 1D



hRIZ	1498
rRIZ	1485
Consensus	1500
hRIZ	1558
rRIZ	1545
Consensus	1560
hRIZ	1618
rRIZ	1605
Consensus	1620
hRIZ	1678
rRIZ	1665
Consensus	1680
hRIZ	1719
rRIZ	1707
Consensus	1722

FIGURE 1E



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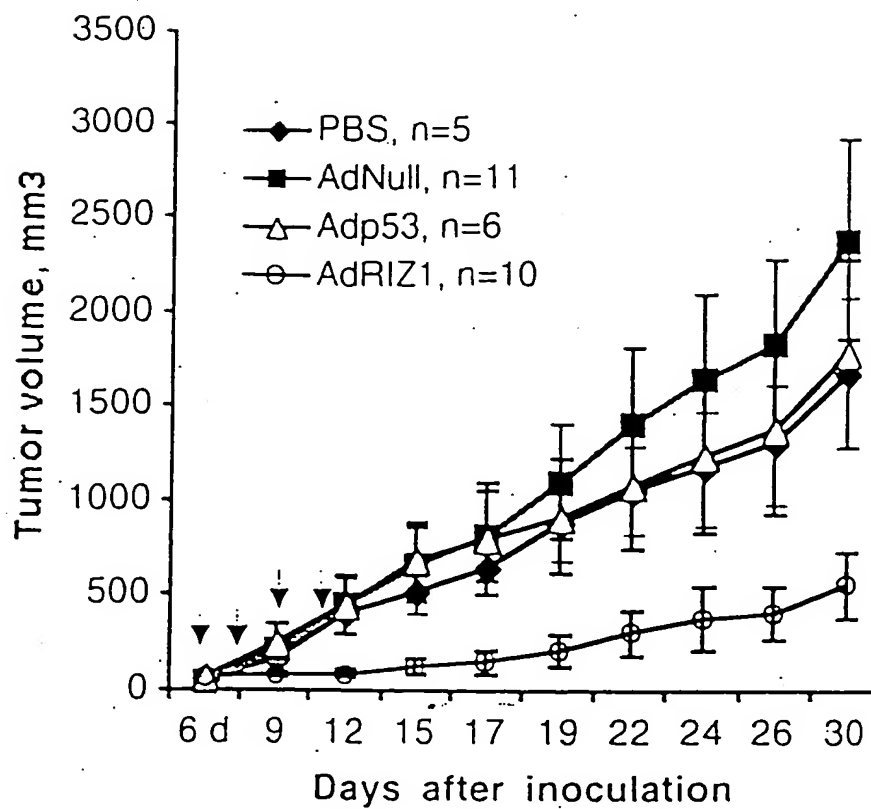


FIGURE 2



FIGURE 3